

#14



OIEP

RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/09/839,946B

TIME: 12:32:12

Input Set : A:\MVIEWD.1A2DV1.TXT

Output Set: N:\CRF3\05012002\I839946B.raw

ENTERED

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4 <110> APPLICANT: Williams, L. David
5   Hershfield, Michael S.
6   Kelly, Susan J.
7   Saifer, Mark G.P.
8   Sherman, Merry R.
10 <120> TITLE OF INVENTION: PEG-URATE OXIDASE CONJUGATES AND USE
11   THEREOF
13 <130> FILE REFERENCE: MVIEWD.1A2DV1
15 <140> CURRENT APPLICATION NUMBER: US 09/839,946B
C--> 16 <141> CURRENT FILING DATE: 2002-04-15
18 <150> PRIOR APPLICATION NUMBER: 09/370,084
19 <151> PRIOR FILING DATE: 1999-08-06
21 <150> PRIOR APPLICATION NUMBER: 09/130,392
22 <151> PRIOR FILING DATE: 1998-08-06
24 <150> PRIOR APPLICATION NUMBER: 60/219,318
25 <151> PRIOR FILING DATE: 1999-08-05
27 <160> NUMBER OF SEQ ID NOS: 3
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 304
33 <212> TYPE: PRT
34 <213> ORGANISM: Sus scrofa
36 <400> SEQUENCE: 1
37 Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe
38   1           5           10           15
39 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
40   20           25           30
41 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
42   35           40           45
43 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
44   50           55           60
45 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
46   65           70           75           80
47 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
48   85           90           95
49 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
50   100          105          110
51 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
52   115          120          125
53 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
54   130          135          140
55 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
56   145          150          155          160

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57 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
58                      165                      170                      175
59 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
60                      180                      185                      190
61 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
62                      195                      200                      205
63 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
64                      210                      215                      220
65 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
66 225                      230                      235                      240
67 Asp Ile Gln Val Leu Thr Leu Gly Gln Val Pro Glu Ile Glu Asp Met
68                      245                      250                      255
69 Glu Ile Ser Leu Pro Asn Ile His Tyr Leu Asn Ile Asp Met Ser Lys
70                      260                      265                      270
71 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
72                      275                      280                      285
73 Tyr Gly Arg Ile Thr Gly Thr Val Lys Arg Lys Leu Thr Ser Arg Leu
74                      290                      295                      300
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 304
79 <212> TYPE: PRT
80 <213> ORGANISM: Papio hamadryas
82 <400> SEQUENCE: 2
83 Met Ala Asp Tyr His Asn Asn Tyr Lys Lys Asn Asp Glu Leu Glu Phe
84 1                      5                      10                      15
85 Val Arg Thr Gly Tyr Gly Lys Asp Met Val Lys Val Leu His Ile Gln
86                      20                      25                      30
87 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
88                      35                      40                      45
89 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
90                      50                      55                      60
91 Ile Ile Pro Thr Asp Thr Ile Lys Asn Thr Val His Val Leu Ala Lys
92 65                      70                      75                      80
93 Phe Lys Gly Ile Lys Ser Ile Glu Ala Phe Gly Val Asn Ile Cys Glu
94                      85                      90                      95
95 Tyr Phe Leu Ser Ser Phe Asn His Val Ile Arg Ala Gln Val Tyr Val
96                      100                     105                     110
97 Glu Glu Ile Pro Trp Lys Arg Leu Glu Lys Asn Gly Val Lys His Val
98                      115                     120                     125
99 His Ala Phe Ile His Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
100                     130                     135                     140
101 Gln Leu Arg Ser Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
102 145                     150                     155                     160
103 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
104                     165                     170                     175
105 Gln Phe Thr Thr Lys Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
106                     180                     185                     190
107 Val Tyr Cys Lys Trp Arg Tyr His Gln Cys Arg Asp Val Asp Phe Glu
108                     195                     200                     205

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```

109 Ala Thr Trp Gly Thr Ile Arg Asp Leu Val Leu Glu Lys Phe Ala Gly
110      210                      215                      220
111 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
112 225                      230                      235                      240
113 Asp Ile Gln Val Leu Ser Leu Ser Arg Val Pro Glu Ile Glu Asp Met
114                      245                      250                      255
115 Glu Ile Ser Leu Pro Asn Ile His Tyr Phe Asn Ile Asp Met Ser Lys
116                      260                      265                      270
117 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
118                      275                      280                      285
119 Tyr Gly Lys Ile Thr Gly Thr Val Lys Arg Lys Leu Ser Ser Arg Leu
120      290                      295                      300
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 304
125 <212> TYPE: PRT
126 <213> ORGANISM: Mutant combination of Sus scrofa & Papio hamadryas
128 <400> SEQUENCE: 3
129 Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe
130 1      5      10      15
131 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
132      20      25      30
133 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
134      35      40      45
135 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
136 50      55      60
137 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
138 65      70      75      80
139 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
140      85      90      95
141 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
142      100     105     110
143 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
144      115     120     125
145 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
146      130     135     140
147 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
148 145     150     155     160
149 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
150      165     170     175
151 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
152      180     185     190
153 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
154      195     200     205
155 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
156      210     215     220
157 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
158 225     230     235     240
159 Asp Ile Gln Val Leu Thr Leu Gly Gln Val Pro Glu Ile Glu Asp Met
160      245     250     255

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 161 | Glu | Ile | Ser | Leu | Pro | Asn | Ile | His | Tyr | Leu | Asn | Ile | Asp | Met | Ser | Lys |
| 162 | | | | 260 | | | | | 265 | | | | | 270 | | |
| 163 | Met | Gly | Leu | Ile | Asn | Lys | Glu | Glu | Val | Leu | Leu | Pro | Leu | Asp | Asn | Pro |
| 164 | | | 275 | | | | | 280 | | | | | | 285 | | |
| 165 | Tyr | Gly | Lys | Ile | Thr | Gly | Thr | Val | Lys | Arg | Lys | Leu | Ser | Ser | Arg | Leu |
| 166 | | 290 | | | | | 295 | | | | | 300 | | | | |

VERIFICATION SUMMARY

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Output Set: N:\CRF3\05012002\I839946B.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date